

# Treatise on the unit of matter

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In the present article there will be a speech about the natural unit of the matter (NUM). In nature there is only one matter. In the nature there is only one moving matter. The movement (change) of a matter is an inherent property of a matter or its attribute. According to the author's understanding our Universe has a central core of a matter – the Singularity. The Singularity emits matter into the Universe. The Singularity is reduced in size, and the Universe is increasing in size. We can talk about the Singularity as a matter harmonic quantum oscillator and a generator. Initially, all matter was concentrated in the Singularity. The total amount of matter in the nature for our Universe was the quantity of  $UCN \cdot NUM$ . Here  $UCN=1.21034 \cdot 10^{44}$  is the only unique constant quantity of the nature. One natural unit of the matter NUM enters into the Universe for one life-time unit NUT. Quite naturally, the time (duration) can be measured only by matter. Therefore, we have the following equation (identity):  **$NUT \equiv NUM$  (time  $\equiv$  matter)**. It's the law of nature. All matter of the Singularity will arrive into the Universe during  $UCN \cdot NUM$ . This will be the total time of the evolution of the Universe. And the total time evolution of the Universe and the total amount of matter in the Universe (including the Singularity) is the finite quantities. There is no infinity in the nature in our Universe. The process of the evolution is determined by the process of the radiation matter from the Singularity. From one natural unit of a matter (NUM) it turns out UCN identical particles of a matter. These particles of a matter consistently arrive into the Universe. The frequency of the rhythm of nature is equal to the UCN elementary steps per NUT. One elementary step of the rhythm of the nature (ESN) corresponds to the elementary unit of the matter  $EUM \equiv NUM/UCN$  and corresponds to the elementary unit of the time  $EUT \equiv NUT/UCN$ . We can determine the quantity of the natural step of the rhythm of the nature (NSN), as the UCN elementary steps of the rhythm of the nature:  $NSN \equiv UCN \cdot ESN$ . The time measured in the steps of the rhythm of nature will be the dimensionless time. The time measured in the units of EUT or NUT will be the dimensional one. The unit for the dimensional time is the natural unit of matter NUM. We can call this unit of measure a merilo (criterion) and give it a reduced

designation in  $\mu^4$ . The natural unit of the matter (NUM) as the merilo will be a natural measure of all things in nature. Merilo will be unique natural unit of measurement of all things and phenomena in nature. It is easy to establish correspondence between SI units and merilo:

Matter (NUM)  $\sim \mu^4$ , time (NUT)  $\sim \mu^4$ , meter (m)  $\sim \mu^3$ , coulomb (C)  $\sim \mu^2$ , kilograms (kg)  $\sim \mu$ .

Here are some numerical values of quantities in SI:

1 NUT =  $7.297 \cdot 10^{-3}$  s, 1 EUT =  $6.029 \cdot 10^{-47}$  s,

$A_{\text{UTD}} = 2.717 \cdot 10^{+64}$  EUT =  $2.245 \cdot 10^{+20}$  NUT =  $1.638 \cdot 10^{+18}$  s = 51.917 billion years - the up-to-date age of the Universe,

1 MAM =  $3.336 \cdot 10^{-09}$  kg - the mass of the atom of the matter (the particles of the matter),

1 EUL =  $2.477 \cdot 10^{-36}$  m - diameter of the atom of the matter (the particles of matter), both values are indicated for the up-to-date age of the Universe.

Another simple calculation:

$M_{\odot} = 1.989 \cdot 10^{+30}$  kg - the solar mass,  $M_{\text{Pl}} = 2.177 \cdot 10^{-08}$  kg - the Planck mass.

Hence, the solar mass will be equal to the sum of the masses of about  $9.138 \cdot 10^{+37}$  hypothetical Planck particles. If we have replaced each Planck particle with the atom of the matter (the particle of matter) it has turned out that one unity of natural matter (NUM) corresponds to the sum of the masses approximately 1 325 000 suns. In this case into the Universe every second would arrive the matter of about in the quantity of the 181 500 000 solar masses. The ideas presented in this article may occur and appear in the mind of the author only during nature walks with his grandson Maxim. For this the author expresses to him the gratitude.